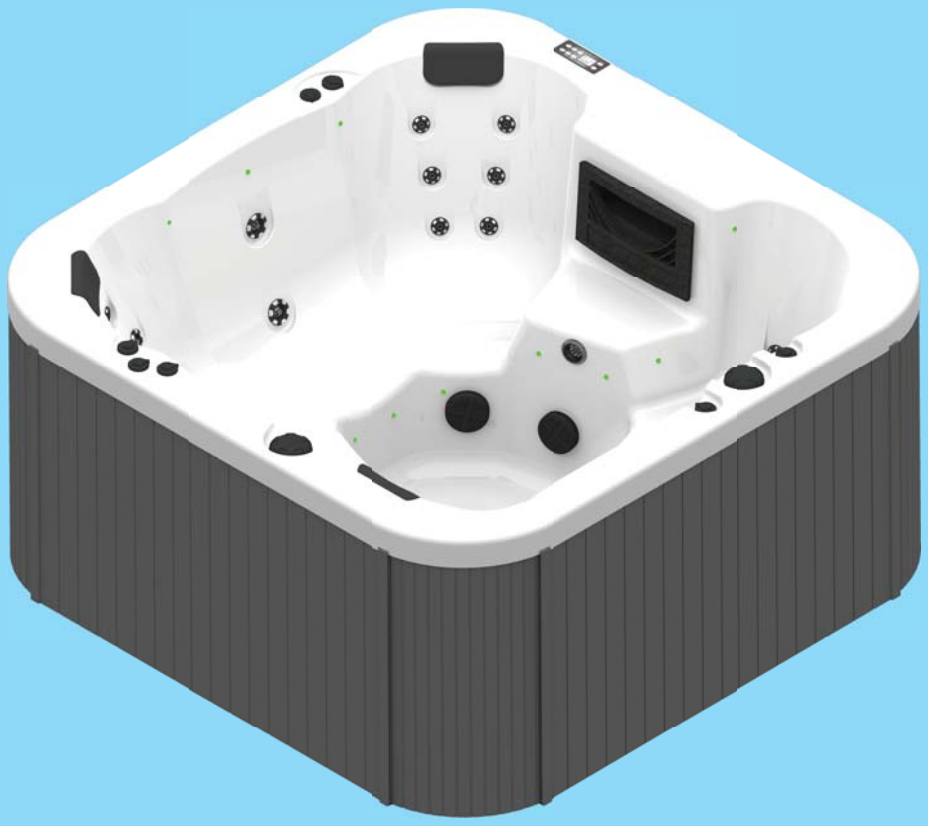
POOLSPA



SPA Bath
LAGUNA SPA 213 x 213

Installation and user manual

Dear customers,

Thank you for trusting us and buying our product!
The POOLSPA company, one of the leaders in the European hydromassage bath market, has been offering its world class quality products for many years. The endurance, reliability and safety of our baths has always been of greatest importance to us; that is why we always use materials and devices from reputable suppliers.

The manual will help yoy learn about the bath installation and its use. In this way, you will be able to use the bath without any problems for many years to come. Have a great time and enjoy our baths!

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Introduction

In order to be able to fully use all functions of a SPA Laguna, please read all sections of this manual.

You should remember that despite the therapeutic and relaxing function of a hydromassage treatment, seriously ill persons or persons suffering from heart disorder diseases or high blood pressure need to consider special conditions created inside the SPA baths and consult their physician before using such baths.

We recommend using hydromassage treatments in water of the average temperature of 37 degrees for approximately 20 minutes.
It is recommended that children using the equipment are always accompanied by an adult.

This equipment is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the equipment by persons responsible for their safety.

Children should be supervised to ensure that they do not play with the equipment.

Before taking a bath make sure that the water level in the bathtub is correct. If the water level is 3-4 cm above the skimmer filter you can start the bath. If the water level in the bathtub is not correct, the filtering system may not operate properly and water heating will not be possible. Remember to add water into the bathtub from time to time.

Parts comprising active components, excluding those supplied with safe voltage not exceeding 12V, cannot be accessible for the person inside the equipment.

Parts comprising electrical components, excluding remote control equipment, should be located or fixed so that they cannot drop into the bathing equipment.

Keep this manual for future reference.

PART 1 - INSTRUCTION MANUAL

Congratulations on buying a portable SPA Laguna!

Hydromassage in the SPA Laguna can be enjoyed by even 5 people both outside the building and inside a large bathroom.

The bath is equipped with an ozonator which makes it easier to keep the water clean and is very effective in beauty treatment. The qualities of ozone are described in detail in Part 1.8.

Thanks to the 'antifrost system', it is even possible to take a bath when the outside temperature is below freezing.

The SPA Laguna comprises:
- electronic control panel with a display
- 6 hydromassage aeration regulators
- 2 hydromassage diverters
- 3 kW electric heater (additional electric heater 3 kW - option),
- 2 hydromassage pumps -1st with power of 2,1 kW, 2nd with power of 1,5 kW,
- axial blower 1,2 kW
- water ozonator,
- UV lamp (optional) – no ozone jet,
- "antifrost" system for outside temperatures below freezing point,
- water temperature sensor,
- hydromassage:
    - set of jets - 29 pcs. (including 1 ozone jet),
    - air channels,
    - cascade - 1 pcs.
- water suction point,
- white underwater LED light,
- multi-color light (optional)
- LED spotlight – 24 points (optional),
- 3 polyurethane cushions (gray in a standard option),
- wooden panel in mahogany or pine colour (optional),
- plastic panel in gray, mahogany or pine (optional),
- wooden stairs in mahogany or pine colour (optional),
- thermal cover (optional),

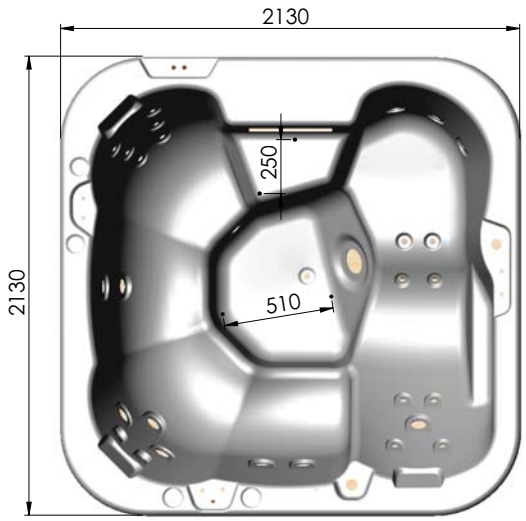
It is recommended to turn the power off with the manual switch before draining the tub to prevent the hydro-massage pump from operating without water!
Any claims regarding a damaged pump operating without water will not be investigated!

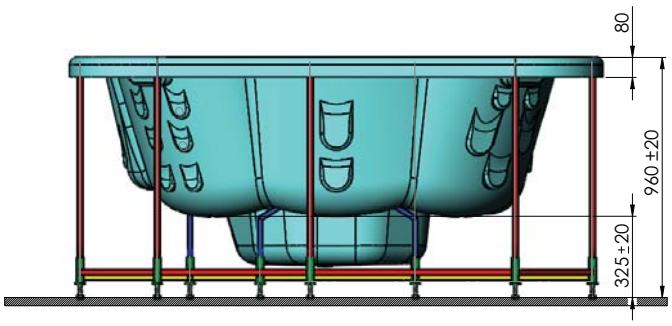
1.1. TECHNICAL SPECIFICATION

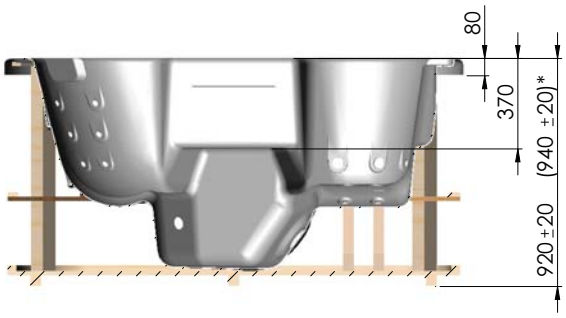
SPA Laguna dimensions:
- length: 2130 mm
- depth: 820 mm
- height: 920 mm +/- 20 mm

Capacity:
1100 litres

Weight:
~ 360 kg (empty bath) with panel and cover







*Dimensions shown in brackets apply to SPA with casing

SPA Laguna dimensions

Material and construction:
Acrylic strengthened by laminated polyester on an aluminum frame. SPAs with panels are installed on wooden frame only.

Voltage:
3N 400V 50Hz,
3N 400V~, 50 Hz (option)

Electrical equipment:
- 3 kW electric heater (additional electric heater 3 kW - option),
- 1,5 kW hydromassage pump
- 2,1 kW hydromassage pump
- axial blower 1,2 kW

Power cord: 5 x 4 mm²

Rated power and power consumption:
7,8 kW (L1-13 A; L2-2,5 A; L3-10 A) - version 3N 400V~
10,8 kW (L1-13 A; L2-13 A; L3-14 A) - version 3N 400V~ (option)

Maximum number of people in the bath: 5

Water:
The water should come from the water system and be properly purifi ed and disinfected accordingly to DIN-19643/97 as well SIA-173.
Well water is inadvisable, unless it has special certificates in compliance with current norms.

ANTIFROST System
The main function of the bathtub controller is to maintain the preset water temperature within the range between 26 and 40°C. However, the system features also a winter operation mode (so-called ANTIFROST) to protect the piping from freezing.

The bathtub controller uses an integrated temperature sensor to control the ambient temperature in a continuous manner. If the air temperature is lower than 7,2°C the winter mode is activated. Turning the winter mode on involves activation of the entire electrical equipment of the bathtub (pumps) to prevent water from freezing in the spa.
Four minutes after the water has reached the temperature of 7,2°C the entire equipment is shut off and the ICE function is switched into stand-by mode.

• Operation mode **ANTIFROST** system is marked by ***ICE*** symbol on the LCD screen.
• ANTIFROST mode is activated irrespective of the bathtub status.
• If during filtration mode **ANTIFROST** system starts, filtration mode will be switch off.

1.2. JETS
SPA LAGUNA is equipped with an innovative jet system.

Jets	Number	Photo
fixed mini jets (A)	6 pcs.	
fixed mini jets (B)	8 pcs.	
fixed mini ozone jet (K)	1 pcs.	
large fixed jets (C)	3 pcs.	
large whirlpool jets (D)	4 pcs.	
large fixed jet (E)	1 pcs.	
large fixed jets (F)	2 pcs.	
whirlpool jet (G)	1 pcs.	

Jets	Number	Photo
large fixed pulsating jets (I)	2 pcs.	
large whirlpool jet (J)	1 pcs.	
3/4'' black tub drain (H)	1 pcs.	

All jets are controlled.

The hydromassage can be intensified by turning the jets in a clockwise direction (about 90°), and an anti-clockwise direction decreases hydromassage intensity and eventually closes the jets.

Replacement of jet inserts with identical diameters.
The inserts can be unscrewed by a firm hand movement in an anti-clockwise direction and then taken out of its frame. Another prepared insert may be fitted to the frame, this time in a clockwise direction until stop.

The exchange should be performed while the bath is NOT operating.

Removing a jet insert

Fixing a jet insert

It is advised, at least once every 6 months, to take out from big jets their inserts for cleaning of any possible dirt. Unscrew the insert from frame; remove gently using pliers inner part of the jet. Clean inner part of the jet. Put back the inner part and screw the insert to the frame, in a clock-wise direction.

1.3. CONSERVATION SUBSTANCES

The acrylic surface of the bath is covered with a thin layer of wax, being the remaining of the polishing process. Metallic elements have been coated with silicone oil for protection purposes. The SPA should be washed off (e.g. with a dishwashing detergent) prior to filling the bath with water.

1.4. VENTILATION

High water temperature during bath in the bath (39^{0}C) causes emitting of big amounts of steam. An efficient ventilation system should be provided in the room with the bath. Installing of a steam condenser in the room which will maintain constant air humidity will minimize the risk of dampening of walls and ceiling. An air-conditioning system in the building allows for elimination of the steam condenser. Such problem does not exist in case of a bath operating in open air conditions.

1.5. MAIN FUNCTIONS ACCESSIBLE FROM THE ELECTRONIC CONTROL PANEL

Laguna SPA control panel

1.5.1. FIRST START-UP

FILL THE BATHTUB WITH WATER BEFORE FIRST START-UP

After power is turned on, the spa bathtub switches to the pump venting mode (Pr). When in that mode press **Jets** button(s) several times to make sure that the pumps are not air-locked. The duration of the mode is less than 5 minutes. Press **Warm** or **Cool** buttons to exit the mode. After the venting is completed the bathtub will switch to standard operation mode.

1.5.2. TEMPERATURE ADJUSTMENT (80°F – 104°F / 26,0°C – 40,0°C)

When in standard operation mode the bathtub controller enables water temperature adjustment within the range mentioned above. Temperature of water inside the spa is displayed in a continuous manner. The value displayed is correct if the pump has been operating for at least 2 minutes.

Press **Warm** or **Cool** button once to display water temperature. The preset temperature can be changed by pressing the same buttons again. Temperature adjustment mode is indicated by a flashing value of the current setting. Three seconds after the button is pressed for the last time the value indicated on the display stays on and the current spa temperature is displayed.

1.5.3. JETS 1

Press the **Jets 1** button to start/stop the pump 1 and toggle low/high speed (if available). If the pump operates at low speed, it switches off after 4 hours. If the pump operates at high speed, it switches off after 15 minutes. Remember that it is not possible to deactivate the low speed when the filtration process is running.

1.5.4. JETS 2 / JETS 3 / BLOWER (IF AVAILABLE)

Press a given button once to start/stop the corresponding device. Each of the devices is turned off after 15 minutes.

1.5.5. LIGHT

Press the Light button to switch the spa light on. The light is turned off after the button is pressed again. The light switches off after 4 hours.

1.5.6. SETTING THE TIME

If the spa is operated for the first time, **SET TIME** message is flashing on the display. To change the current setting press the following buttons: **Time**, **Mode/Prog.**, **Warm** or **Cool** one by one. After the last button of the sequence is pressed the hour setting mode is activated. The hour visible on the screen will be changed automatically. To stop it from changing press **Warm** or **Cool** buttons one more time and press Time button to confirm the setting.

1.5.7. MODE / PROG

There are three operating modes available for the controller.
The mode is changed by pressing **Warm** or **Cool** button.

In the standard mode the set temperature is maintained and the **STANDARD** icon is displayed.

When in the eco mode the spa is heated up to the preset temperature only during filtration cycles. Ecn message appears on the display. Ecn message and water temperature value are displayed alternately during pump operation.

When in the stand-by mode the spa is heated up to the temperature of 20°F/10°C only during filtration cycle. SLP message appears on the display. SLP message and the current water temperature value are displayed alternately during pump operation

1.5.8. SETTING FILTRATION CYCLES

The controller can be operated in two filtration cycles.
The first preset filtration cycle starts at 8:00 a.m. and ends at 10:00 a.m.
The other preset filtration cycle starts at 8:00 p.m. and ends at 10:00 p.m.
During the filtration process pump #1 is operated at low speed with ozone generator on.

1.5.9. CHANGE OF FILTRATION CYCLE

It is not necessary to change the filtration cycles. If for any reason it is necessary to change previously programmed adjustments (**FILTER 1** for a.m. and **FILTER 2** for p.m.), the controller allows doing this.
To change the cycles push the buttons consecutively (during 3 seconds) **Time**, MODE/PROG, MODE/PROG. It will appear the communicate **SET START FILTER 1** on the screen. Change the time of starting the filtration by pushing the buttons **Warm** or **Cool**. To put new adjustments into memory of the controller push the button MODE/PROG. The system will be switched to the mode of **SET STOP FILTER 1**. Changing the time of finish the filtration will be done by pushing the buttons **Warm** or **Cool**, the same way as above programming **START FILTER 1**. Approval of the new adjustments will be done by pushing the button MODE/PROG. Programming the filtration for the afternoon (FILTER 2) suppose to be done the same way as for the a.m.

1.5.10. LOCKING THE PANEL

Press the Time, Blower and Warm buttons in that order within 3 seconds. The panel will be locked. To unlock it, press the Time, Blower and Cool buttons in that order within 2 seconds.

1.5.11. BLOCKING TEMPERATURE CHANGES

Press the Warm, Time, Blower and Warm buttons in that order within 3 seconds. The Warm and Cold buttons will be locked.
To unblock temperature changes, press the Time, Blower and Cool buttons in that order within 2 seconds.

Diagnostic messages

Message description		**Required action**
	No message is displayed. No power..	The control panel is inactive until the power is on. The SPA settings remain unchanged until the spa is switched on again.
– –	Unknown temperature.	The pump must operate for 2 minutes before current water temperature can be displayed.
OHH	“Overheating” – SPA switched off* A sensor indicates the heater temperature exceeded 118ºF/47.8ºC.	DO NOT GO INTO THE WATER. Remove the SPA cover and wait for the water to cool down. Once the water is cooled reset the system by pressing any button. If reset is not possible, unplug the SPA and contact your local dealer or service center.
OHS	“Overheating” – SPA switched off* A sensor indicates the water temperature exceeded 110ºF/43.5ºC.	DO NOT GO INTO THE WATER. Remove the SPA cover and wait for the water to cool down. Once the temperature drops to 107ºF/41.7ºC, the SPA should reset automatically. If reset is not possible, unplug the spa and contact your local dealer or service center.

SnA	SPA switched off* The sensor connected to the “A” sensor socket does not work.	If the problem persists contact your local dealer or the service centre. This error may occur temporarily as a result of overheating.
Snb	SPA switched off* The sensor connected to the “B” sensor socket does not work.	If the problem cannot be solved, contact your local dealer or service center. This error may occur temporarily as a result of overheating.
SnS	The sensors are out of balance. If this message and the SPA water temperature are displayed alternately, such a condition may be temporary. If the situation persists, the SPA will be turned off.	If the problem continues, contact your local dealer or service center.
HFL	Significant water temperature difference is detected by the sensors. This may indicate flow-related problems.	If the water level is normal, make sure that all pumps have been vented. If the problem continues, contact your local dealer or service center.
LF	The problem with low flow persists (this message appears after the message has been displayed five times within 24 hours). The heater is switched off but the remaining spa functions work as usual.	Perform the steps which need to be taken when the message is displayed HFL. Press any button to reactivate water heating.
dr	Improper water quality, low flow or air bubbles in the heater. The spa is switched off for 15 minutes.	If the water level is normal, make sure all the pumps are primed. The message will disappear automatically after 15 minutes. The alarm is deactivated if any button is pressed manually.. If the problem continues, contact your local dealer or service center.
drY	Improper water quality has been detected in the heater (this message appears after the message has been displayed three times dr). The spa is switched off.*	Perform the steps which need to be taken when the message is displayed dr. The message will not be reset automatically. The message is reset by pressing any button.
ICE	“Ice” – Conditions which may cause system freezing have been detected.	No action is necessary. All devices will switch on, regardless of the condition of the spa. The devices remain on for 4 minutes after the sensors detect that the temperature has increased to 45°F/7.2°C or more. An additional freeze sensor may be installed to protect the system from special conditions which may lead to its freezing. Such a sensor is recommended for spas located in colder climate zones. Contact your local dealer for more details.

Caution! Risk of electric shock! The device does not include any parts to be fixed by the user.
Do not attempt to repair the control system yourself. Contact your dealer or service center for help. Follow all the user instructions on how to connect the spa to power supply. Installation should be performed by an electrician with appropriate qualifications, making sure the device is properly grounded.

1.6. MASSAGE

There are water and air massage systems installed in the bath:

1.6.1. Hydromassage (whirl bath)

Hydromassage is the pressure on defined muscles exerting by stream of water or stream of air and water. Water or air and water at high pressure bring out from regulated jets and hit on body surface. It tones and relaxes the skin, at the same time massaging and cleaning it. Hydromassage is recommended for anybody with spine, arthritic or muscle pains, respiratory system diseases or gynaecological problems.

Water massage system (hydro-massage) is made of the following elements:
- a set of 29 water and air jets, supplying water or a water and air mix of high kinetic power to the water section of the bath,
- a hydromassage whirl pump, enforcing water circulation,
- 6 regulators of air supply to the hydro-massage jets, installed at the edge of the bath; used for regulation of massage intensity,
- 2 hydromassage diverters which operate for change massage zone as well as starting of cascade,
- water suction point.

The water massage intensity regulation is possible by means of aeration regulators located at the perimeter of the bath top, by adding air to the water stream coming from the jets. The more air, the stronger the stream is. An accurate water massage power regulation can be also made by the jets, what is described in detail in Part 1.2.

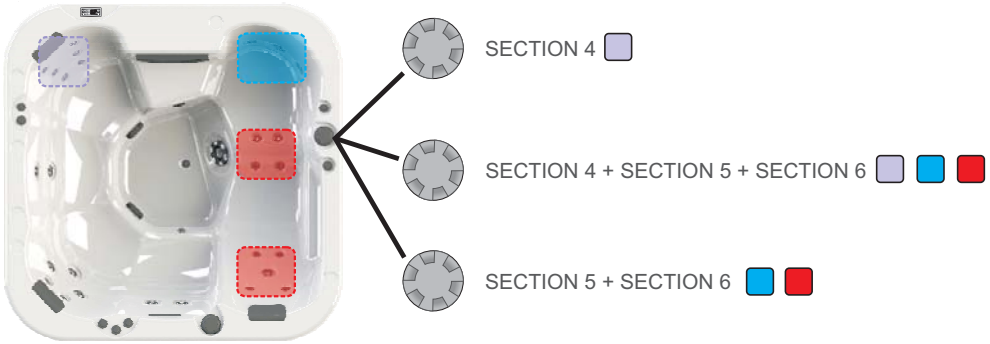
Hydromassage intensity is increased by turning the regulator knobs anti-clockwise.

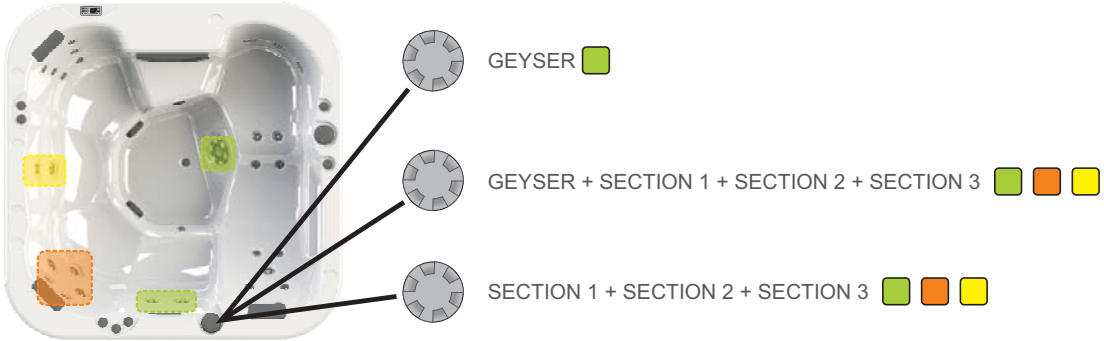
Hydromassage intensity is decreased by turning the regulator knobs clockwise.

Each of the six regulators is responsible for controlling a different jet section.

- (A) - fixed mini jets
- (B) - fixed mini jets
- (C) - large fixed jets
- (D) - large whirlpool jets
- (E) - large fixed jet
- (F) - large fixed jets
- (G) - whirlpool jet
- (I) - large fixed pulsating jets
- (J) - large whirlpool jet
- (K) - fixed mini ozone jet

- SECTION 1 + GEYSER
- SECTION 2
- SECTION 3
- SECTION 4
- SECTION 5
- SECTION 6
- CASCADE





Hydromassage zones

1.6.2. Airmassage (pearl bath)

In air massage, heated air is pumped into water by a blower. Millions of bubbles come from the perforated bath bottom, actively relaxing the body. The bubbles stimulate circulatory system, relax muscles and joints. Their activity may be compared to a normal hand massage. It soothes the nervous and respiratory system.

The airmassage system is made of the following elements:

- air channels situated on two levels, forming an integral part of the bath, topped with a number of openings within the water section of the bath,
- a blower,
- a loop protecting against water intrusion into the blower,

1.7. COLOURFUL LED SPOTLIGHT/MULTI-POINT LED LIGHT (OPTIONAL)

If the tub is equipped with the multi-colour light feature, the colour can be changed by switching the light off and on again. The light colour changes in a sequence.

Colourful spotlight settings:

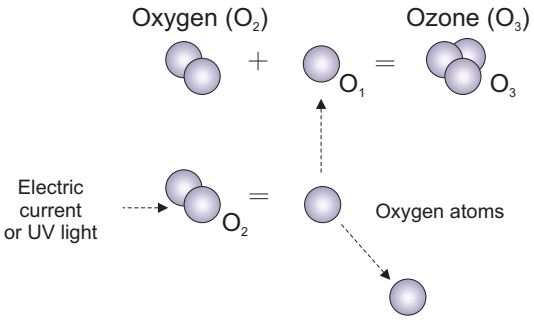
- **Slow colour:** Colours transition gracefully from colour to colour, cycling through the entire colour wheel. Each colour cycle lasts approximately 3 minutes.
- **Fast colour:** Colours transition from colour to colour, cycling through the entire colour wheel. Each colour cycle lasts approximately 1 minute.
- **Slow random colour:** Colours step or jump from one colour to the next in random order. Each colour duration lasts approximately 10-15 seconds.
- **Fast random colour:** Colours step or jump from one colour to the next in random order. Each colour dura¬tion lasts approximately 5 seconds.
- **High speed random colour:** A rapid series of intense flashes of varying coloured light.
- **Cross fade:** Colour cycle back and forth gracefully between blue and green. Total cycle lasts 1 minute.
- **Fixed colour:** Static display of a single colour. Available colours include green and blue.

Colourful multi-point light settings:

6 brilliant colors and 4 color transition programs

- **Tidal fade.** Cool color mix, slow transitions between green and blue tones.
- **Afterburner Fade.** Warm color mix – slow transitions between red and orange tones.
- **Spectrum Slowdance.** Slow transitions between all six colors.
- **Color Burst.** Fast strobe through all six colors.

1.8. WATER OZONIZING



Ozone producing process

The ozonized air has, apart from a nice scent, many therapeutic and antiseptic properties. It greatly helps in keeping the water clean both in the bath and the plant. Ozone definitely supports maintenance hygiene in the SPA. The heated and ozonized air is pumped into the air duct system underneath the bath. Operating only during filtration.

Ozone is healthy:

– it is more and more popular in beauty treatment,
– helps to remove lacuni, cellulite and wrinkles,
– improves complexion,
– helps to treat varices and skin diseases,
– helps in heart and circulatory system problems,
– soothes problems connected with menopause.

Why is ozone necessary in SPA?
– it has antiseptic properties,
– helps to keep the bathe clean,
– helps to keep water clean, fresh and clear,
– eliminates any unpleasant water smell,
– eliminates fungi and yeast in water,
– refilling with water does not need to be frequent.

1.8.1. UV LAMP (OPTIONAL)
A special UV lamp generates UV-C radiation with a wavelength of 253,7 nm, which neutralizes bacteria, viruses and other primitive organisms, preventing their reproduction at the same time.

The benefits of UV-C radiation:
- ensures fresh, clean and clear water
- disinfects water safely and efficiently
- keeps the formation of mold, bacteria and algae under control
- reduces the use of chorine and other chemicals by up to 80%
- prevents the smell of chlorine as well as skin and eye irritation (including eye redness)
- is more environmentally-friendly than traditional methods.

Ozonation and the UV lamp work only during filtration.

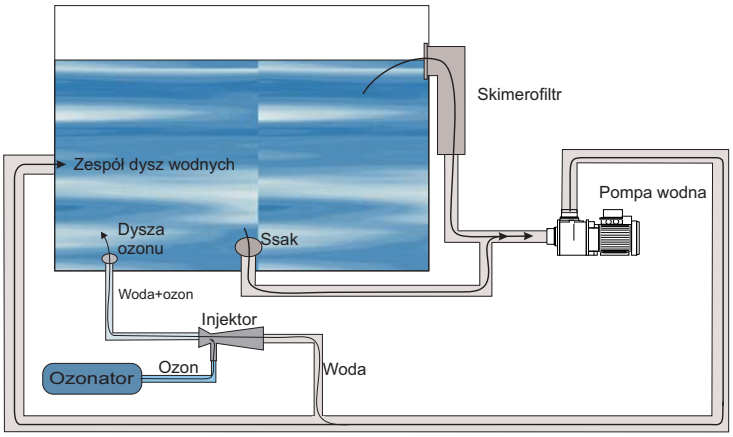
1.9. LAGUNA SPA FILTRATION SYSTEM
SPA LAGUNA filtration system comprises:
The system is composed of the following elements:
- skimmer filter
- filtration and massage pump
- water filter (with a renewable cartridge for multiple use),
- water suction point,
- pipes and PVC piping.

Filter replacement
1. Tilt the hatch towards the inside of the bath,
2. Remove element B,
3. Remove filtr C, and subsequently D,
4. Insert new filters in the opposite order - i.e. D and C.
5. Place element B in the rails of the skimmer cover**.**

Skimmer filter elements

Recommended:
Rinsing every 2 days
Replacement not less frequent than once a year

The skimmer filter used in the SPA Laguna has the filtration area 9,2 m^2.



Filtration system scheme for a SPA Laguna

1.10. DISINFECTION

Disinfection process in the SPA Laguna is ozone based. Ozone is used during filtration.
Additionally, the bath is equipped with a START SET for pH correction and disinfection with active oxygen, as described in Part 1.11.

1.11. MEASUREMENT AND TREATMENT FORMULA SET

Before the first bath and always once in 2 weeks, please check the water pH with the enclosed Dinofresh/pH Tester!!!

pH measurement:
• rinse a test container and fill to the 10 ml mark with pool water,
• add 1 PHENOLRED tablet to the container and close the plug,
• shake the container and dissolve the tablet,
• compare the test water colour with the colours in the column on the left and read the pH of the water sample,
• all pH values below 6,8 make the water turn yellow,
• all pH values above 8,2 make the water turn red,
• ideal values range from 7,2 to 7,6.

Dinofresh measurement: This is a measurement of the active oxygen concentration contents, informing about the oxygen content level in water.
• rinse a test container and fill to the 10 ml mark with pool water.
• add 1 DPD no 4 tablet to the container and close the plug.
• shake the container and dissolve the tablet.
• compare the colour of the solution with the colours in the column on the right to read the Dinofresh value of the water sample.
• the recommended values range from 5,0 to 8,0 mg/litre.

Important instructions:
• do not touch the tablets! It may distort the test outcome,
• reading of results must take place immediately after the tablet has dissolved in water,
• after each measurement the test container and its lid should be thoroughly rinsed. Otherwise, it may also distort the results.

The tablet reagents are provided for the purpose of the above described chemical analyses and should not be used for any other purposes. The tablet reagents must not be handled by children.

Start set: test container and DPD and Phenolred tablets

If the measured pH is outside the range 7,2 to 7,6 it will be necessary to use SPA Laguna granules to correct the pH value.

1. **Dinominus -** pH decreasing granules.
   Dosage: about 10 g/1000 litres to lower pH by 0.1 (in case of Laguna: 10g).
   The granules should be poured over water surface as the filtration pump is on. The pH measurement should take place directly after the correction. Do not add the granules anywhere close to the skimmer.

2. **Dinofresh -** active oxygen granules should be added to the skimmer.
   Dosage: 25g/1000 litres is a start value (25 g for Laguna), and then in 5g doses or multiplied doses to restore the 5÷ 8 mg/l Dinofresh level in water.

3. **Dinoclean S-** alkaline, liquid and strong chemical to clean the rim of the bath and dissolve fats. It is perfect to clean any greasy stains from the walls or the rim of the bath, and to remove calciferous deposits. Dosage: spread concentrated or dissolved (1:10) agent on dirty surfaces using a brush. Rinse thoroughly after a short period of time. Do not let the agent dry before rinsing.

A set of disinfecting agents for SPA LAGUNA can be purchased at most showrooms where POOLSPA products are offered in the country.

It is a natural phenomenon that in SPA baths the pH value of water tends to increase. However, very rarely the pH value decrease can be observed. It is then recommended to use Dinoplus granules, which can be ordered through the showroom of the Laguna SPA manufacturer.

Set of measurement-treatment agents (to be purchased at sales showrooms)

1.12. THERMAL COVER (ADDITIONAL OPTION)

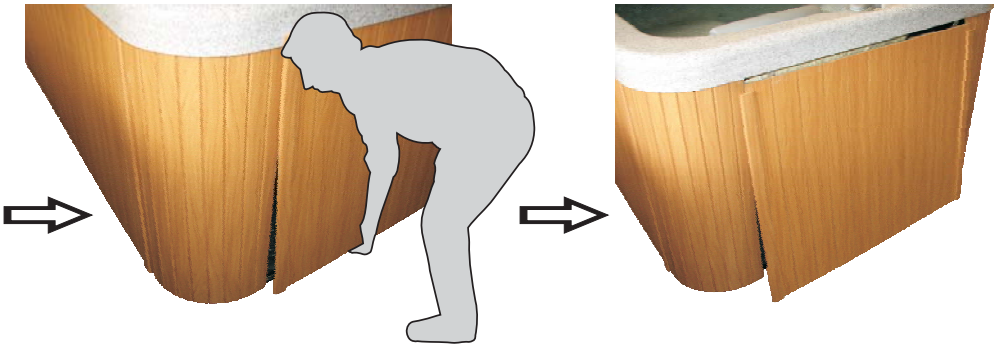
The SPA Laguna can be optionally provided with a thermal cover.

When is it necessary to have a thermal cover?

- when the bath is going to be used outdoors, i.e. in a garden (the cover prevents the water from excessive cooling down and keeps the bath clean),
- when the bath is going to be used very frequently indoors (the cover serves to prevent the water from excessive evaporation).
- 2 times a month is recommended to open the slipcover of the thermal cover for removing the water from it.

1.13. DISASSEMBLY / ASSEMBLY OF CASING (OPTIONAL)

Very gently pull forward the masking strips , then gently lift the cover, remove the mounting brackets from the threshold strip on the bottom and take out the casing.



PART 2 – INSTALLATION MANUAL

2.1. TRANSPORT

The bath should only be transported in the original manufacturer's packaging! After unpacking, the bath can be carried by the aluminum frame or acrylic elements. The pipes and cables must not be used as handles/ grips!!!

2.2. SITE PREPARATION

The SPA LAGUNA portable bath may be operated both indoors and outdoors. The site for the bath should comply with the following conditions:

a) the proper area and the proper transportation routes (in case of closed premises),

b) proper electrical supply and ensured efficiency of the electrical connection in respect of the equipment - for standard equipment the rated power consumption is ab 7,8 kW, 3N 400V~, 50 Hz (5x4 mm^2) (10,8 kW, 3N 400V~, 50 Hz (5x4 mm^2) - optional) with regard to the safety of the users, in all cases the supply cable must be protected by means of a differential-current switch with the standard rated switch off current of 30 mA),

c. water supply and drainage (ø50),

d. leveled floor (floor drain recommended),

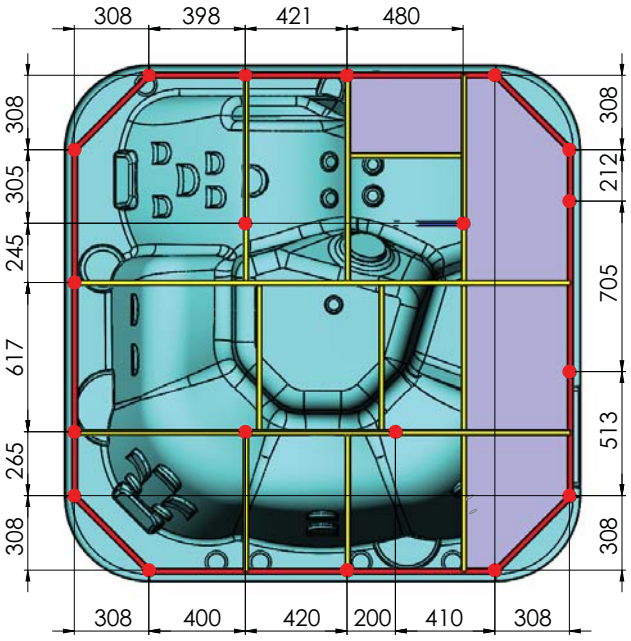
e. adequate hardness of bed adjusted to SPA weight,

f. sufficient ventilation (indoors),

g. in case of a bath installed in a closed premise, access to the electrical equipment must be provided for maintenance or inspection purposes.

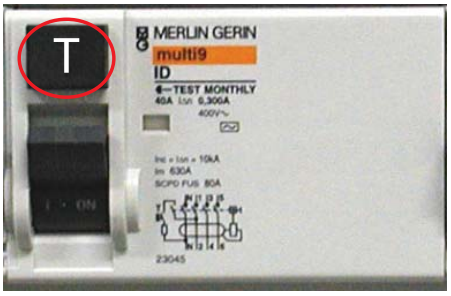
2.3. BATH POSITIONING

In order to ensure proper operation conditions, the floor should be very well levelled. Localisation of SPA should ensure access to mechanical (devices below the SPA rim (near control panel side). All the bath legs should be on a solid and hard surface. The total weight of the bath with water and four people is about 1900 kg.



2.4. PREPARATION OF ELECTRICAL AND WATER CONNECTIONS

Laguna SPA requires at most ca. 7,8 or 10,8 kW of power, depending on configuration. In both cases, the minimum cross-section of the cord should be at least 5x4 mm^2. In the case of tubs installed outdoors, a cord with insulation resistant to deterioration caused by weather conditions is required. Protect the cord against mechanical damage. If the insulation or cord is damaged, always replace it due to the risk of electric shock.



A differential-current switch with an indicated test button

For 5x4 mm^2 cords, protect the tub's power cord with a C-type residual current device and a trigger current of 16 A. For safety reasons, always connect the tub's power cord to the mains using an electrical connection protected by a residual current device with a rated cut-off current of 30 mA. It is recommended to check the residual current device periodically, according to the guidelines for testing and resetting such devices.

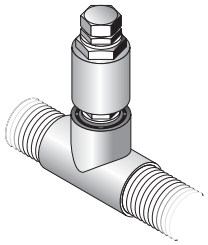
The SPA tub should be connected to the building's electrical wiring permanently. The electrical wiring should be equipped with the appropriate manual cut-off mechanism, enabling the opening of contacts on each power supply pole. In addition, equipotential bondings must be made using the clamp located on the tub support frame. The minimum cross-section of the equalizer power cord is 4 mm^2.

All electrical connections should be made by a qualified electrician.

For safety reasons, check the effectiveness of the anti-electric shock protection from time to time by pressing the TEST button on the residual current device. If the power is not turned off immediately after pressing the button, unplug the tub manually and contact a qualified specialist. Do not use the SPA tub if the protections do not function properly.

To make sure the tub does not switch on without water, disconnect the power supply using the above-mentioned manual mechanism.

The bath can be connected to the water and sewage systems permanently or the bath can be filled and drained by means of flexible hoses disconnected after each operation. The flexible hose set of the bath includes a T-pipe with a 1/2" coupling for filling of the bath through the hydro-massage jets. The fixed piping system includes release valves located near the skimmer-filter; at the outlets of which fixed or removable hose connection with the sewage system should be provided.



T-pipe with a 1/2" coupling

It is recommended that the bath is permanently connected to the sewage system due to the risk of water overflowing through the emergency overflow system.

2.5. GROUNDING CABLE CONNECTION

In order for the residual current device and the tub itself to function properly, a grounding cable with a cross-section of at least 2,5 mm^2 must be installed. Connect the cable to the frame, as illustrated. Connect the other end of the cable to the protective grounding of the building's electrical wiring.

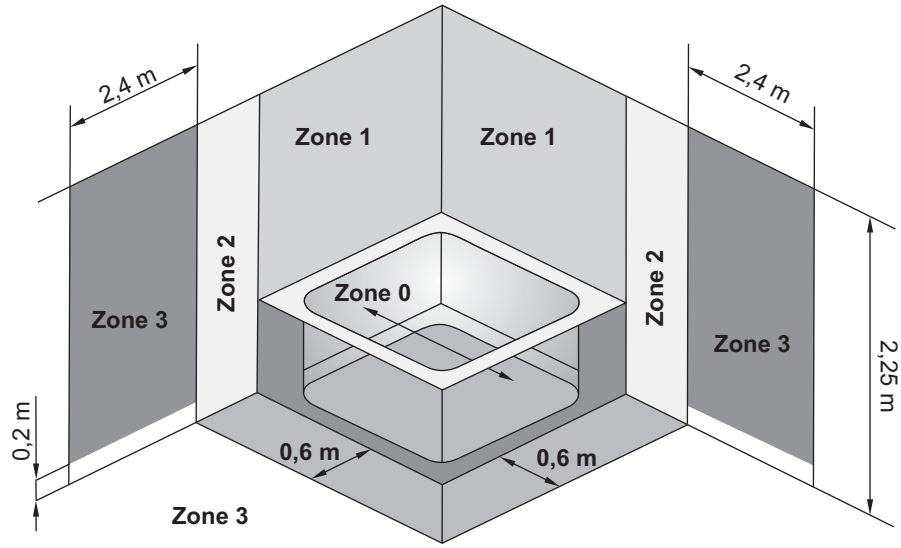
Place of connection of the earthing wire

2.6. CONNECTION TO MAINS

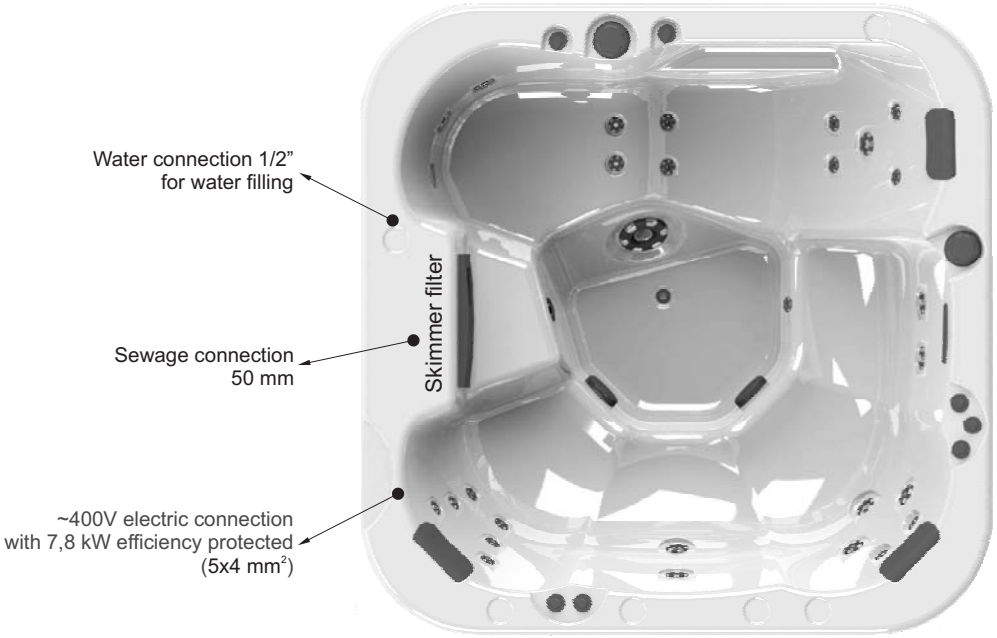
As the bathtub is protection class I equipment it has to be permanently connected to power supply (TN-S type) using IP X5 junction box. It is recommended to install the connection box in area I (under the bathtub) close to other electrical devices of the bathtub (more than 20 cm above the floor).

The bathtub must never be connected using a plug.

Zone 0 is the area inside the bath.
Zone 1 is the zone 0 area plus the space up to 2,25 m above the floor.
Zone 2 is the zone 1 area extended by 0,6 m, again up to 2,25 m above the floor.
Zone 3 is the area reaching 2,4 m beyond zone 2, up to 2,25 cm above the floor.



Location of protection zones



Location of SPA Laguna connections

2.7. SERVICE VALVE

In Laguna spa there are **four** gate valves, which shut off the water supply to the pump and heater. If valves are closed, they provide overhaul, repair or even replacement of equipment in a spa filled with water.

Before first use of spa, please check whether all valves are open.

2.8. MAINTENANCE OF ACRYLIC ELEMENTS

Only mild fluids (not containing acetone, abrasive or caustic substances) should be used to clean the bath. The structure and low level of surface adhesion of acrylic mean that keeping the bath clean should not be a problem.

Mechanically damaged gloss acrylic (small, shallow scratches) can be easily repaired. In the case of small scratches, a small amount of wax-free car-polish should be used. Deeper scratches may be removed by sandpaper in order of grain 800, 1200, 2000 followed by the car-polish mentioned earlier. In order for the surface to be smooth it should be ground in a circular motion, followed by a wax car polish (which provides a high level of shine). Repairs can be made with a repair kit available at the dealer shops; **however we recommend using the services of our authorized POOLSPA service staff.**

The repair kit

GUARANTEE CONDITIONS

Our company, POOLSPA Sp. z o.o., guarantees its products against all manufacturing or operational defects under the conditions set out here.

After installing the Spa, please fill with installer in manual the card with the details requested to ensure validity of warranty. Please remember to get from sales agent confirmation of purchasing date.

1. The product must be installed strictly in accordance with the installation instructions that come with the product, and respecting all the measurements and indications given.

2. For the warranty to be operative, all work done during the warranty period must be carried out by a authorised service. The list of authorized service is available by Your sales agent.

3. The warranty period. POOLSPA Sp. z .o.o. provides a full guarantee for the Spa for a period of 2 years from the date of installation. During this full guarantee period, any manufacturing or operating defect will be repaired at no cost to the user (excluding the bulbs). If the product is installed in a country other than the country of acquisition, the period and terms of the warranty will be restricted to the general warranty cover stipulated by regulations in the country concerned. After 2 years from the date of installation, POOLSPA Sp. z o.o. provides post-warranty payable service.

4. The warranty will not be valid in these cases:

a) a fault or faulty operation resulting from anomalies or non-compliance with the product-specific installation rules or arising in the hydraulic, electrical or gas systems,
b) corrosion, scaling or abrasion caused by a lack of cleaning and/or maintenance, improper use, creless storage or ill treatment, breakages, damage resulting from the use of water at temperatures of over 50ºC, wear from abnormal usage, or any other cause not stemming from the appliance,
c) if the Spa, after use, is not secured by thermal cover against sun radiance,
d) if installation has been done by non-authorised service, or if non-original spare parts were used,
e) if it is found that the Spa has been in use for a period longer than the warranty period,
f) if used water do not fulfill conditions of DIN-19643/97 as well SIA-173.

5. In particular, POOLSPA Sp. z o.o. declines all liability for any harm to people or damage to things that may have resulted from any of the excluded causes specified in the preceding section.

6. Any other demand stemming from grounds not specified in the above sections is excluded unless the law of the land expressly attributes liability.

Recommendations:
Before using the equipment, read carefully through the instructions included with the Spa.

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TECHNICAL PRODUCT SHEET

MODEL, FITTINGS	Laguna SPA
FACTORY NUMBER	
DATE OF PRODUCTION AND TESTING	
NOMINAL POWER REQUIREMENTS	
FUSING REQUIREMENTS	
VOLTAGE / FREQUENCY	
THERMAL PROTECTION	F
QUALITY CONTROL	

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POOLSPA company has the policy of constant improvement of products and reserves the right to introduce changes to the specification and colours without a prior notification. However, POOLSPA makes all efforts to ensure that the specifications are updated on the date of publishing.

30.04.2013
PI3000179